

APPENDIX H

TABLE H-1
RESOURCE MONITORING AND EVALUATION

Resource	Item	Location	Technique	Unit of Measure	Frequency	Information Warranting A Decision Change	Annual Cost
Minerals (Solid Leasable)	Compliance Lease with ap- proved plan.		On-site Inspec- tion.	Hours	At least once per month.	Variable	\$3000
Range	Trend	Priority I allotments as needed.	Nested fre- quency plot method; Photo point.	Percent frequency of key species; percent ground cover; apparent changes.	5-10 yr. in- tervals or one grazing cycle for roation systems.	Change to downward trend.	\$2800
	Utiliza- tion	Priority I allotments as needed; M and C allotments.	Key forage plant method.	Percent utiliza- tion of forage.	Annually for I allotments; others as con- flicts arise.	Utilization greater than 50% on key species.	\$2800
	Actual Use	I, M & C allot- ments as need- ed.	Actual grazing use reports submitted by livestock operators; Livestock com- pliance checks.	AUMs (Animal units and Use duties).	Annually in allotments showing high utilization.	Consider with cli- mate to help deter- mine why utilization is at monitored level.	\$2800
	Climate	Resource Area Wide.	Nat. Oceanic Atmospheric Administration reports. <u>1/</u>	Inches of pre- cipitation; ef- fective precipi- tation and de- grees F.	Monthly; or as needed.	Consider with actual use to help determine why utilization is at monitored level.	\$1400

1/ Portable weather stations and rain gauges as needed and availability allows.

TABLE H-1 (cont.)
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Resource	Item	Location	Technique	Unit of Measure	Frequency	Information Warranting A Decision Change	Annual Cost
Range (cont.)	Condition	All allotments.	Range condition guide outlined in Nat. Range Handbook.	Percent composi- tion of all plant species compared to expected potential plant community.	Whenever a significant change in vegetative composition has taken place; or at least at 10-year intervals.	A decline of one con- dition class.	\$8400
Wildlife	Threaten- ed, Endan- gered and Sensitive Species	Throughout R.A.	Observe repre- sentative sites during key periods.	Occupied sites and population levels.	Annually	10% loss of occupied sites and/or numbers per site.	\$2800
	<u>Astragalus</u> <u>spatula-</u> <u>tus, A.</u> <u>jejunus</u>	Bear Lake Plateau	10m Sq. plots.	Number of plants.	Every 3rd year	30% decrease in numbers.	\$700
	<u>Salicornia</u> <u>rubra</u>	Stump Creek	10m Sq. plots.	Number of plants.	Every 3rd year	30% decrease in numbers.	
	Elk	Browns Canyon, Slug Cr., Gar- den Gap calving areas.	On-the-ground surveys, for- age/cover sur- veys.	Number of animals seen, Relative %.	Initially when logging is proposed in an area.	20% decrease in 60/40 ratio for unit.	?
		Summer/Fall	Wallows, rub areas, forage/ cover ratio.	Number observed. Cover mapping.	Before and during logging.	25% decrease in use areas and when ratio approaches 60/40.	?

TABLE H-1 (cont.)
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Resource	Item	Location	Technique	Unit of Measure	Frequency	Information Warranting A Decision Change	Annual Cost
Wildlife (cont.)	Big Game	Winter range.	Extensive browse survey technique.	Age & form class, 3 year cycle. utilization.			\$1400
			Pellet tran- sects.	Big game days/ acre.	Annually	25% decrease in numbers.	\$2800
			Utilization of key species in key ranges.	%	Annually	Over 40% utilization prior to winter.	\$1400
	Sage Grouse	Selected leks.	Observation	Number of males.	Annually	Population levels below 1986 levels.	\$2100
		Wintering habitat.	Photo, toe- point tran- sects.	% cover of sage and forbs.	3 year cycle.	20% decrease in key forbs and browse species.	\$ 700
		Brood-rearing.	Photo, toe- point tran- sects.	% cover of forbs and visual view of foliage height.	Annually	Any decrease in forb composition until areas are back in satisfactory condi- tion.	\$1400
		Nesting.	Photo, toe- point tran- sects.	% cover of sage- brush and amount of nesting ma- terial available.	3 year cycle.	10% variation from sage grouse guidelines.	\$ 700

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Wildlife (cont.)	Sharp- tailed Grouse.	Selected leks.	Observation.	Number of males.	Annually.	25% decrease from baseline year of 1986.	\$1400
		Blackfoot River, Robbers Roost, Garden Gap, King Creek.	Livestock uti- lization.	% use.	Annually.	Utilization above 40%.	\$1400
			Toe-point tran- sect.	% cover.	3 yr. cycle.	Brush density over 30%.	\$ 700
			Photo	Visual record of foliage height.	Annually.	Average grass height less than 4 inches.	\$1400
	Waterfowl	Bear River	Nest search	Number of nests.	Annually	10% decrease from 1986 data.	\$ 700
Recreation and Visual	Visitor Use	Resource Area	Observation, traffic coun- ters and visi- tor question- naires.	Visitor Days	Annually	25% increase from anticipated levels.	\$3000
	ORV	Pocatello SRMA and areas where problems could develop.	Observation, photography and erosion tran- sects.	% ground cover affected and in- creases in soil loss.	Annually	50% increase in ero- sion rates and 10% difference from ORV designation.	\$6000
Wilderness	Wilder- ness	Petticoat Peak and Worm Creek.	Observation photographs.	N/A	Monthly during accessible season.	Any surface-disturb- ing activity or use not consistent with the BLM's Interim Management Policy.	\$3000

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Cultural	Large	Area wide.	Patrols, photo records, site	% of site disturbed/undisturbed.	Annually, 3 year cycle.	Active vandalism, illegal site excavation, litter accumulation, unplanned recreational or other use.	\$ 250
	Large, open tool and flake scatters.	Area wide.	Patrols, photos, site record form comparison.	% of site disturbed/undisturbed.	Annually, 3 year cycle.	Increased site disturbance; vegetation changes/damage, new vehicle or livestock trails, intensive recreational or other use.	\$ 450
	Rock art sites.	Area wide.	Patrols, photos and site record form comparison.	Any change from original recorded condition.	Annually, 3 year cycle.	Active, repeated rock art removal, attempted removal, or defacement.	\$ 250
	Prehistoric rock structures or alignments.	Area wide.	Patrols, photos and site form comparison.	Any rock removal, displacement or other site alteration.	Annually, 3 or 5 year cycle.	Active, repeated rock removal, or displacement for any purpose or reason.	\$ 175
	Small tool and flake scatters.	Area wide.	Patrols, photo and site record form comparison.	% of site disturbed/undisturbed.	As warranted, 3 or 5 year cycle.	Increased, active site disturbance, vegetation damage or removal, new vehicle or livestock trails, increased unplanned site use.	\$ 275

TABLE H-1 (cont.)
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Resource	Item	Location	Technique	Unit of Measure	Frequency	Information Warranting A Decision Change	Annual Cost
Cultural (cont.)	Historic sites and trails.	Area wide.	Patrol, photo and site re- cord form com- parison.	Overall site con- dition, % of site intact, remaining, or standing.	Annually, 3 year cycle.	Active vandalism, or increased, observed natural deterioration, increased unplanned use.	\$ 675
Forest Management	Forest Insect & Disease Infesta- tions.	Area wide.	Plot methods photos, aerial detection sur- veys.	Acres, extent severity.	Annually	Heavy infestation to epidemic conditions may warrant a change in HMP particularly in the Douglas fir timber type.	\$5000
Riparian		Riparian Areas	Pfankuch (R-1) Water quality/ riparian moni- toring will be consistent with RMP Water Qual- ity/Riparian Monitoring Guid- ance document.	Score 0 - 115+	3-5 years	Going down a rating- Excellent to Good Good to Fair Fair to Poor Decline in Cover	\$1000
Access	Road	T4S, R39R, S19 T7S, R46E, S22 T1S, R39E, S7 T7S, R35E, S14 T6S, R36E, S30 T7S, R35E, S14 T7S, R38E, S16 T8S, R34E, S30 T8S, R38E, S10 T9S, R38E, S22 T10S, R35E, S4 T6S, R44E, S29 T12S, R40E, S34	N/A	Miles of access	15 years	Increased public complaints about restricted access or impacts to private landowners too great.	\$45,000 per mi

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Access (cont.)		T10S, R39E, S22					
		T8S, R44E, S31					
		T9S, R37E, S9					
		T9S, R37E, S13					
		T6S, R34E, S32					
		T15S, R43E, S28					
		T11S, R41E, S4					
		T13S, R43E, S17					
		T13S, R45E, S18					
		T13S, R45E, S32					
		T9S, R36E, S20					
		T9S, R41E, S7					
		T11S, R43E, S32					
		T7S, R42E, S11					
		T5S, R35E, S30					
		T14S, R40E, S21					
Soils	Soil Ero- sion. 2/	Allotments on soils with ero- sion potential.	The 3-F Erosion Bridge (Spirit Level).	Tons/Acre/Year	Annually for upland stock- ing rates greater than 4 acres per AUM.	If soil erosion ex- ceeds 5 tons per acre per year.	\$2500
		Allotments on soils with high erosion poten- tial.					
			The 3-F Erosion Bridge.	Tons/Acre/Year	Selected allot- ments as need- ed annually with upland stocking rate greater than 5.5 acres per AUM.	If soil erosion ex- ceeds 5 tons per acre per year.	\$3000

2/ Allotments to be monitored are: 4073, 4121, 4177, 4208, 4239, 4332, 4340, 4403, 4409, 4415, 4422, 6026, 6032, 6083, 6085, 6095.